Beam Power Tube— Sharp-Cutoff Pentode

DUODECAR TYPE

GENERAL DATA

	Electrical:	
<u> </u>	Heater Characteristics and Ratings: Voltage (AC or DC) 6.3 ±0.6 Current at heater volts = 6.3 1.200 Peak heater—cathode voltage (Each unit): Heater negative with	volts amp
	respect to cathode 200 max. Heater positive with	volts
	respect to cathode	volts
	Beam Power Unit: Grid No.1 to plate 0.26 Grid No.1 to cathode & grid No.3, grid No.2, internal shield,	pf
	and heater 12.0 Plate to cathode & grid No.3, grid No.2, internal shield,	рf
	and heater 12.0	pf
	Pentode Unit: Grid No.1 to plate 0.034 Grid No.3 to plate 2.8 Grid No.1 to cathode, grid No.2, grid No.3, internal shield,	pf pf
	and heater 6.5 Grid No.3 to cathode, grid No.1, grid No.2, plate, internal shield.	pf
	and heater 7.5	pf
<u> </u>	Grid No.1 to grid No.3 0.24 Plate of beam power unit	pf
	to plate of pentode unit 0.12	pf
	Characteristics, Class A Amplifier (Pentode Unit):	
	Plate Supply Voltage	volts
	Grid-No.2 Supply Voltage	ocket volts ohms megohm μmhos μmhos ma ma
	Grid-No.1 Voltage (Approx.) for plate $\mu a = 10$ 4.5 Grid-No.3 Voltage (Approx.) for plate $\mu a = 10$ 4.5	volts volts

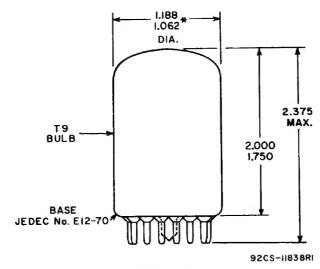
Mechanical: Operating Position)
Pin 2 - Pentode Cathode Pin 3 - Pentode Grid No.1 Pin 4 - Pentode Grid No.3 Pin 5 - Internal Shield Pin 6 - Pentode Pin 7 - Pentode Grid No.2 Pin 10 - Beam Power Grid No.2 Pin 11 - Beam Power Plate Fin 12 - Heater	_
PENTODE UNIT - FM SOUND DETECTOR	
Maximum Ratings, Design-Maximum Values: PLATE VOLTAGE	
BEAM POWER UNIT - AMPLIFIER - Class A	
Maximum Ratings, Design-Maximum Values:PLATE VOLTAGE.150 max. voltsGRID-No.2 (SCREEN-GRID) VOLTAGE.135 max. voltsAVERAGE CATHODE CURRENT.65 max. maPLATE DISSIPATION.6.5 max. wattsGRID-No.2 INPUT.1.8 max. watts	
Typical Operation and Characteristics:	
Plate Voltage.120voltsGrid-No.2 Voltage.110voltsGrid-No.1 (Control-Grid) Voltage8voltsPeak AF Grid-No.1 Voltage.8volts	



Zero-Signal Plate Current 49	ma
MaxSignal Plate Current 50	ma
Zero-Signal Grid-No.2 Current 4	ma
Max.—Signal Grid—No.2 Current 8.5	ma
Plate Resistance (Approx.) 10000	ohms
Transconductance 7500	μ mhos
Load Resistance 2500	ohms
Total Harmonic Distortion 10	per cent
Max.—Signal Power Output 2.3	watts

a The dc component must not exceed 100 volts.

b Without external shield.



DIMENSIONS IN INCHES

* APPLIES TO MINIMUM DIAMETER EXCEPT IN AREA OF SEAL.